

TO BE COMPLETED AND FORWARDED TO THE BOARD AS SPECIFIED BY THE BOARD WHILE PRACTISING UNDER SUPERVISION

PRACTITIONER UNDER SUPERVISION TO COMPLETE:

Applicant's name: _____ **Registration Number:** **40-0**

Report covers work for the period: _____ to _____

Has more than one supervisor been allocated to this applicant (Circle one) Yes No

I would like the Board to consider the following comments:

The supervisor has discussed this report with me. (Circle one) Yes No

Date: _____ **Signature:** _____

SUPERVISOR TO COMPLETE

Name of Supervisor: _____ **Registration Number:** _____

Position of Supervisor: _____

Workplace: _____ **Phone:** _____

Please comment on the practitioner's strengths and areas for improvement/advancement (include plan to address any areas of concern if applicable):

As supervisor of the above applicant, I hereby certify that he/she has completed a minimum of ____ month's fulltime equivalent work experience since registration as a medical imaging and radiation therapy practitioner and can perform the skills as listed below to the standard of a nuclear medicine technologist. **Please note:** when there has been more than one supervisor, each supervisor is to complete a supervisor report. A copy of this report must be forwarded to the employing hospitals head of department.

Date: _____ **Signature** _____

SUPERVISOR TO COMPLETE:

Domain 1: Professional and Ethical Conduct

| Ref | Key Competencies | Ref | Competency Indicators | Supervisor's comments |
|-----|--|-------|--|-----------------------|
| 1.1 | Practise in an ethical and professional manner consistent with relevant legislation and regulatory requirements, and knowledge of service provisions and resource management | 1.1.a | Apply knowledge of legal responsibilities | |
| | | 1.1.b | Manage personal, mental and physical health to ensure fitness to practise | |
| | | 1.1.c | Apply knowledge of mandatory and voluntary reporting obligations | |
| | | 1.1.d | Apply knowledge of the Medical Radiation Technologists Board's <i>Code of Ethics</i> to their practice | |
| | | 1.1.e | Provide relevant information to the patient and apply knowledge of appropriate methods to obtain informed consent | |
| | | 1.1.f | Apply knowledge of the New Zealand health system | |
| | | 1.1.g | Apply knowledge of the basic principles underpinning ethical practice within the medical imaging/radiation therapy profession | |
| | | 1.1.h | Apply knowledge of appropriate levels of autonomy and professional judgement in a variety of medical imaging/radiation therapy practice settings | |
| 1.2 | Provide each patient with an appropriate level of dignity and care in a range of settings in partnership with patients, families/whanau, and communities | 1.2.a | Apply knowledge of the influence of socio-cultural factors on patient attitudes and responses to medical imaging/ radiation therapy services | |
| | | 1.2.b | Apply knowledge of appropriate professional behaviour in patient interactions | |
| | | 1.2.c | Apply knowledge of appropriate boundaries between patients and health professionals | |

| Ref | Key Competencies | Ref | Competency Indicators | Supervisor's comments |
|-----|---|-------|--|-----------------------|
| 1.3 | Assume responsibility and accept accountability for professional decisions | 1.3.a | Apply knowledge of appropriate responses to unsafe or unprofessional practice within their scope of practice | |
| | | 1.3.b | Apply knowledge of organisational policies and guidelines with professional standards within their scope of practice | |
| | | 1.3.c | Apply knowledge of relevant quality systems appropriate to their scope of practice | |
| 1.4 | Advocate on behalf of the patient when appropriate within the context of the practitioner's scope of practice | 1.4.a | Apply knowledge of the principles of patient advocacy and their application to medical imaging/radiation therapy services | |
| | | 1.4.b | Apply knowledge of when it may be appropriate to intervene on the patient's behalf | |
| | | 1.4.c | Apply knowledge of responsibilities to consult with other members of the health care team about the suitability and application of the proposed medical imaging/radiation therapy procedure when appropriate | |

Domain 2: Communication and Collaboration

| Ref | Key Competencies | Ref | Competency Indicators | Supervisor's comments |
|-----|---|-------|---|-----------------------|
| 2.1 | Communicate clearly, sensitively and effectively with the patient and their family/whanau or carers | 2.1.a | Apply knowledge of ways to establish rapport with the patient to gain understanding of their issues and perspectives | |
| | | 2.1.b | Apply knowledge of ways to communicate with the patient and/or carers to collect and convey information and reach agreement about the purpose of the examination/treatment, techniques and procedures | |
| | | 2.1.c | Apply knowledge of communication strategies to engender trust and confidence and respect patient confidentiality, privacy and dignity | |
| | | 2.1.d | Respond to patient queries or issues | |
| | | 2.1.e | Apply knowledge of likely communications barriers specific to individual patients and/or carers | |
| | | 2.1.f | Apply knowledge of appropriate adjustments to communication style to suit the particular needs of the patient including those from culturally and linguistically diverse backgrounds | |
| | | 2.1.g | Apply knowledge of how to engage third parties to facilitate effective communication when required | |
| | | 2.1.h | Apply knowledge of informed consent | |
| 2.2 | Collaborate with other health practitioners | 2.2.a | Apply knowledge of effective and respectful working relationships with health practitioners | |
| | | 2.2.b | Apply knowledge of professional roles and responsibilities of healthcare team members and other service providers | |
| | | 2.2.c | Apply knowledge of accepted protocols and procedures to provide relevant and timely verbal and written communication | |

Domain 3: Evidence-Based Practice and Professional Learning

| Ref | Key Competencies | Ref | Competency Indicators | Supervisor's comments |
|-----|---|-------|--|-----------------------|
| 3.1 | Apply critical and reflective thinking to resolve clinical challenges | 3.1.a | Describe the clinical challenge or question | |
| | | 3.1.b | Identify information required to respond to the challenge or question | |
| | | 3.1.c | Apply knowledge of appropriate methods to collect and assess evidence | |
| | | 3.1.d | Apply knowledge of the identification, access or collection of information from credible sources | |
| | | 3.1.e | Apply knowledge of how to assess the adequacy of information to answer the issue under inquiry | |
| | | 3.1.f | Apply knowledge of the assessment of imaging results, applying clinical reasoning and reflective processes to identify implications for practice, including limitations of practice and recognition of need to consult | |
| | | 3.1.g | Apply knowledge of the review of clinical action plans/protocols | |
| 3.2 | Identify ongoing professional learning needs and opportunities | 3.2.a | Apply knowledge of legal and professional responsibilities to undertake continuing professional development (CPD) | |
| | | 3.2.b | Apply knowledge of personal strengths and limitations to identify learning required to improve and adapt professional practice | |
| | | 3.2.c | Apply knowledge of strategies for identifying learning needs of self and others to deliver improved patient outcomes | |
| | | 3.2.d | Apply knowledge of planning and implementation strategies to address professional and development needs | |
| 3.3 | Facilitate understanding and learning in a clinical environment | 3.3.a | Apply knowledge of communication strategies to facilitate understanding and learning both within an individual and group context | |
| | | 3.3.b | Apply knowledge of assessment, evaluation and feedback | |

Domain 4: Safety of Practice and Risk Management

| Ref | Key Competencies | Ref | Competency Indicators | Supervisor's Comments |
|-----|---|-------|--|-----------------------|
| 4.1 | Practise safely, appropriate to the scope of practice | 4.1.a | Apply knowledge of New Zealand radiation safety legislation and/or guidelines of international best practice in the safe use of medical imaging/radiation therapy technologies | |
| | | 4.1.b | Apply knowledge of the principles of risk management relevant to medical imaging/radiation therapy | |
| | | 4.1.c | Apply knowledge of risk control systems and procedures | |
| | | 4.1.d | Apply knowledge of safe medical imaging/radiation therapy practice | |
| 4.2 | Protect and enhance patient safety | 4.2.a | Apply knowledge of patient identification procedures to confirm the correct match of patient with intended procedure | |
| | | 4.2.b | Apply knowledge of maintaining and communicating patient information to ensure accuracy and confidentiality | |
| | | 4.2.c | Apply knowledge of risks associated with patient transfers | |
| | | 4.2.d | Apply knowledge of risk of infection | |
| 4.3 | Operate equipment safely and appropriate to the scope of practice | 4.3.a | Apply knowledge of equipment to confirm that it is in good order and operating within acceptable parameters | |
| | | 4.3.b | Apply knowledge of the identification and appropriate action to correct unacceptable condition or operation of equipment | |
| | | 4.3.c | Apply knowledge of protocols to record and report conformance and non-conformance of equipment | |

| Ref | Key Competencies | Ref | Competency Indicators | Supervisor's Comments |
|-----|---|-------|---|-----------------------|
| 4.4 | Maintain safety of self and others in the work environment appropriate to the scope of practice | 4.4.a | Apply knowledge of legal responsibilities for health and safety of self and others | |
| | | 4.4.b | Apply knowledge of the safety hazards in the workplace and apply knowledge of responsibilities for notification | |
| | | 4.4.c | Apply knowledge of the identification and implementation of safety management procedures | |
| | | 4.4.d | Apply knowledge of medical imaging/radiation therapy related hazards and control measures to ensure the safety of others in the workplace | |
| | | 4.4.e | Apply knowledge of appropriate personal protective clothing and equipment | |
| | | 4.4.f | Apply knowledge of reporting incidents in accordance with protocols, procedures and legal requirements | |

Domain 5: Medical Imaging/Radiation Therapy Sciences Practice

| Ref | Key Competencies | Ref | Competency Indicators | Supervisor's Comments |
|-----|---|-------|--|-----------------------|
| 5.1 | Apply understanding of anatomy, physiology and pathology appropriate to the scope of practice | 5.1.a | Apply knowledge of the anatomy and physiology of the human body relevant to the scope of practice | |
| | | 5.1.b | Apply knowledge of the pathophysiology underpinning disease and injuries affecting the human body | |
| | | 5.1.c | Apply knowledge of anatomical structures, injuries and pathologies of the human body in dynamic, planar, sectional and 3D images | |
| 5.2 | Apply principles of medical imaging/radiation therapy physics and equipment | 5.2.a | Apply knowledge of principles of medical imaging/radiation therapy physics and equipment | |
| | | 5.2.b | Apply knowledge of the use of equipment and laboratory procedures appropriate to the scope of practice | |
| | | 5.2.c | Apply knowledge of the principles of medical imaging/radiation therapy physics to optimise patient outcomes | |
| 5.3 | Use patient information management systems appropriately | 5.3.a | Apply knowledge of legislative responsibilities relating to ownership, storage, retention and destruction of patient records and other practice documentation | |
| | | 5.3.b | Apply knowledge of patient information systems | |
| | | 5.3.c | Apply knowledge of the verification and management of information applicable to the scope of practice | |
| 5.4 | Confirm the procedure according to clinical indicators | 5.4.a | Apply knowledge of the patient's clinical history, referral and current medical information to confirm the requested procedure is appropriate | |
| | | 5.4.b | Apply knowledge of the appropriate imaging and/or treatment protocols and priorities, including consideration of the information collected during the initial interaction with the patient and knowledge of imaging and/or treatment options | |
| | | 5.4.c | Apply knowledge of adaptation of the requested examination to an individual patient considering available clinical information | |

| Ref | Key Competencies | Ref | Competency Indicators | Supervisor's Comments |
|-----|---|-------|---|-----------------------|
| 5.5 | Exercise clinical judgement and decision-making | 5.5.a | Apply knowledge of factors or conditions that may affect the patient's behaviour and/or capacity to undergo the procedure | |
| | | 5.5.b | Apply knowledge of patient preparation requirements | |
| | | 5.5.c | Apply knowledge of patients most at risk, according to modality and/or specific procedures | |
| | | 5.5.d | Apply knowledge of contraindications and limitations of medical imaging/radiation therapy services | |
| | | 5.5.e | Apply knowledge of patient assessment and medical imaging/radiation therapy interventions in accordance with legislation, registration standards, codes and guidelines | |
| 5.6 | Deliver patient care appropriate to the scope of practice | 5.6.a | Apply knowledge of bio-effects of ionising and non-ionising radiation and dose optimisation to deliver safe and effective patient outcomes | |
| | | 5.6.b | Identify and respond to a patient's deteriorating condition or inability to undergo a procedure or treatment, consistent with duty of care and statutory requirements | |
| | | 5.6.c | Apply knowledge of responsibilities to confirm the requested examination addresses the clinical question and for conveying information when significant findings are identified | |
| 5.7 | Manage and manipulate 3D datasets for image acquisition relevant to the scope of practice | 5.7.a | Apply knowledge of how 3D datasets are generated | |
| | | 5.7.b | Apply knowledge of the use of 3D images for optimal diagnostic or therapy outcomes to confirm that appropriate data is obtained | |
| 5.8 | Apply knowledge of pharmaceuticals relevant to the scope of practice | 5.8.a | Apply knowledge of pharmaceuticals, pharmacodynamics and the potential range of reactions to drugs or agents relevant to the scope of practice | |
| | | 5.8.b | Apply knowledge for the delivery and administration of correct pharmaceuticals to patients relevant to the scope of practice | |

Domain 5B: Nuclear Medicine Technologist

| Ref | Key Competencies | Ref | Competency Indicators | Supervisor's Comments |
|------|---|-------|---|-----------------------|
| 5B.1 | Prepare and assess the purity of radiopharmaceuticals | 5B.1a | Apply knowledge of the elution and quality control of a radioisotope generator | |
| | | 5B.1b | Apply knowledge of assaying the eluate and preparing radiopharmaceuticals ensuring critical procedure features are observed, such as correct volume | |
| | | 5B.1c | Apply knowledge of quality control on radiopharmaceuticals and assess for patient use | |
| 5B.2 | Explain the bio distribution and applications of radiopharmaceuticals including therapies | 5B.2a | Demonstrate knowledge of the procedure of bio distribution, including determining whether it is normal, altered or unexpected | |
| 5B.3 | Perform routine nuclear medicine imaging (may include PET) | 5B.3a | Apply knowledge of the technique appropriate to the examination | |
| | | 5B.3b | Apply knowledge of imaging projections and their application to each body area | |
| | | 5B.3c | Apply knowledge of standard and hybrid studies for the best diagnostic outcome for the patient | |
| | | 5B.3d | Apply knowledge of the evaluation of nuclear medicine images | |
| 5B.4 | Perform computed tomography (CT) imaging for attenuation correction and anatomical fusion imaging | 5B.4a | Apply knowledge of the use, design and operation of CT systems | |
| | | 5B.4b | Apply knowledge of imaging parameters, scan protocols and relative dose levels based on a range of patient presentations | |
| | | 5B.4c | Apply knowledge of anatomical/attenuation correction CT scan | |
| | | 5B.4d | Apply knowledge of post processing techniques, including multi-planar reformats, co-registration, and volume imaging | |

| Ref | Key Competencies | Ref | Competency Indicators | Supervisor's Comments |
|------|--|-------|---|-----------------------|
| 5B.5 | Perform nuclear medicine radioisotope examinations | 5B.5a | Apply knowledge of dose and radioactive decay used in examinations and therapies | |
| | | 5B.5b | Apply knowledge of the difference between therapeutic and diagnostic doses as it affects the patient, health practitioner, and the general public | |
| | | 5B.5c | Apply knowledge of patient preparation, care, and aftercare, and delivery systems for nuclear medicine radioisotope examinations | |
| | | 5B.5d | Apply knowledge of appropriate dose delivery systems and safe aseptic techniques | |
| 5B.6 | Demonstrate understanding of in vivo, mixed in vitro, and in vitro laboratory procedures | 5B.6a | Demonstrate understanding of aseptic blood labelling procedures | |
| | | 5B.6b | Demonstrate understanding of in vivo, mixed in vitro, and in vitro laboratory procedures | |
| | | 5B.6c | Demonstrate understanding of methods to determine if results of laboratory procedures are normal, altered, or unexpected | |
| | | 5B.7a | Demonstrate understanding of dose and radioactive decay for therapeutic administrations | |
| 5B.7 | Demonstrate understanding of nuclear medicine radioisotope therapies | 5B.7b | Demonstrate understanding of the principles underpinning nuclear medicine radioisotope therapies | |
| | | 5B.7c | Demonstrate understanding of patient preparation, care and aftercare, and delivery systems for nuclear medicine radioisotope therapies | |
| | | 5B.7d | Demonstrate understanding of appropriate dose delivery systems and safe, aseptic techniques | |
| | | | | |

| Ref | Key Competencies | Ref | Competency Indicators | Supervisor's Comments |
|-------|---|--------|--|-----------------------|
| 5B.8 | Perform quality control procedures related to nuclear medicine practice | 5B.8a | Apply knowledge of quality control to support safe nuclear medicine practice | |
| 5B.9 | Safely manage radiation and radioactivity in the environment | 5B.9a | Apply knowledge of the environmental risks of manufactured radiation and radioactivity | |
| | | 5B.9b | Apply knowledge of safe and legal methods of handling, storage, and disposal | |
| | | 5B.9c | Apply knowledge of protocols and procedures in response to radiation and radioactivity incidents | |
| 5B.10 | Consult and report | 5B.10a | Apply knowledge of responsibilities for conveying information when significant findings are identified | |

For more information regarding the competency requirements, refer to the publication:

“Competence Standards for Medical Imaging and Radiation Therapy Practice in New Zealand” which can be found on the Board’s website under publications www.mrtboard.org